



HARNESSING NATURE'S TECHNOLOGY

CORPORATE PROFILE

OXYGEN, OZONE, BIOREMEDIATION

**HARNESSING NATURE'S TECHNOLOGY FOR
HEALTHY LIVING**



PREAMBLE

The extinction of the dinosaurs some 65 million years ago is perhaps the most contentious, debated issues of all time. Surprisingly though, no one pays much attention to an equally intriguing mystery. What was it that allowed them to dominate life on Earth for millions of years, as well as give life to the entire living creation? The answer is simple: **Oxygen**.

Oxygen stores the sun's energy so that all life can feed off of it. If oxygen is slowly and effectively taken away by ever-growing clouds of pollution, caused by human greed and excess, what ensues are plagues, chronic disease, illness, low volumes of livestock and poor crop yields.






The perfect solution is to replace the missing oxygen in the environment by the removal of oxygen-robbing pollution, combined with reforestation, and back into the human and animal bodies through supplementation and delivery systems specialising in active forms of oxygen and minerals.

The response to urgently curb and reduce the harmful by-products of industry, as well as maintain healthy lifestyles, has provided a platform for Biozone Manufacturing to offer experience-based, chemical reduced and environmentally friendly solutions.

Biozone Manufacturing(PTY) Ltd exploits the commercial advantage presented by Nature.

- **Oxygenation**
The Breath of life. The addition of oxygen to any system, including the human body.
- **Ozonation**
Ozone is a natural disinfection and oxidant. This is a reduced chemical water treatment technique based on the infusion of ozone into water. Ozone is a gas composed of three oxygen atoms (O₃), which is one of the most powerful oxidants.
- **Bioremediation**
The stimulated growth of healthy bacteria. Bioremediation is a process that uses mainly microorganisms, plants, or microbial or plant enzymes to detoxify contaminants in the soil and other environments. It is used throughout the world for industrial and commercial sewage treatment reducing the use of harmful chemicals.

WHAT DOES BIOZONE OFFER?

 <p>The disinfection, oxidation and deodorisation of contaminants in water and air with reduced harmful chemicals</p>	 <p>The prevention of moulds, fungi, bacteria, viruses and ethylene in fresh-food storage and transport</p>	 <p>Ensure direct and safe decontamination of surfaces and unoccupied areas</p>	 <p>Guarantee continuous, healthy, clean air treatment from industrial air pollution</p>	 <p>Bioremediation technologies encouraging and maintaining healthy bacteria growth to obviate having to use chemicals</p>
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The world has recognised that there are limited resources available for an ever-increasing population, and our consumption levels are beyond what is sustainable.

We **Harness Natures Technology**, to save on costs, build a more sustainable business and make a difference to your carbon footprint.

Biozone manufacturing has invested heavily in testing, developing and sourcing the best combination of components and equipment since 1997.

Along with the practical experience acquired from installing and operating ozone and oxygen equipment in a wide range of applications, Biozone has a proven track record in the delivery of technology that effectively purifies air, water and effluent to the highest standards and safety levels.

Global water treatment plants have already upgraded their infrastructure to include ozone for the use of disinfection to replace the use of harmful of chlorine. The use of ozone is just as effective for oxidation of harmful material such as iron and manganese, a common result of industrialisation. All of this is achieved with no residual damage to the environment.

Industry can replace heat or steam treatment (as in industrial laundries), industrial noxious gases and waste effluent with ozone and save electricity and labour while protecting the environment.

WHY USE BIOZONE MANUFACTURING?

Harness Natures Technology, with the professional team in clean water, waste water solutions, air technologies and soil remediation.

Biozone Manufacturing uses the latest technology and expertise to treat water, waste and pollution using ozone and oxygen while encouraging and promoting the use of healthy bacteria growth. Furthermore the use of ozone as a disinfectant or deodoriser in water or air is an accepted natural procedure, well documented in all fields of hygiene and food or beverage preparation.

In summary, To change the way you do business, and build a sustainable future, partner with the best in the business.

Biozone - Harnessing Nature's Technology

Biozone Manufacturing is at the forefront of developing new technologies and natural, reduced chemical solutions for oxidation and disinfection.

The Company emphasis has always been the promotion and application of ozone (supercharged oxygen). Sewage plants throughout the world commonly use oxygen to encourage the prolific growth of bacteria to naturally eliminate bacteria and to render even the worst sewage and waste into reusable, safe effluent for irrigation or reintroduction to natural riverine and lake/dam structures.

The revolutionary introduction of **Nanotechnology** to complement ozone oxidation is proving to be very exciting:

- Extremely fine bubbles of air / oxygen can be introduced to *polluted dams or water systems* results in increased oxygen levels leading to revitalised and healthy water ideal for irrigation and horticulture.
- *Dirty, blocked irrigation nozzles and pipes* can now be a thing of the past while healthy, oxygenated, nematode-free *soils* are obvious added benefits to the technology.
- Prolific growth can be generated in *aquaculture* (fish farms and aquariums) using oxygen as increased oxygen in the blood boosts immune systems.
- Apart from direct application of oxygen, vigorous good bacteria growth can be developed and maintained to *treat wastewater and sewage*. Commonly activated sludge Municipal STP's and submerged media smaller STP's take advantage of this process throughout the world. This becomes a far more effective long term treatment system rather than continuously adding harmful chemicals such as chlorine for disinfection causing serious, harmful consequences to the ecology, animal and human life.

MARKETS

INDUSTRIAL AND COMMERCIAL MARKET

- Air, water, effluent and wastewater treatment using local and imported products under the Airzone, Aquazone and Biozone brands.
- Principally disinfection and decontamination systems for bottling plants, effluent and wastewater recycling requirements, smoking areas in restaurants, casinos and nightclubs, tackling “Sick Building Syndrome” and sanitising hospitals, hotels, shopping centres, garbage areas, mortuaries, abattoirs and food preparation sites.

PLANTS AND PROJECTS MARKET

- Air, water, effluent and wastewater treatment
- Municipal water treatment plants and mine water recycling
- Oxidation and neutralising of noxious industrial gases such as NOX and SOX
- Bioremediation techniques for recovering polluted rivers and dams.

MEET THE TEAM

HARNESSING NATURE'S TECHNOLOGY is what we do best!

The Team at Biozone is made up of a diverse group of valuable individuals, each bringing with them, their own unique talents and contributions to the company's overall success.

Thanks to the Biozone Team's extensive experience, maturity and flexible approach to dynamic markets, our clients are able to explore new solutions and enjoy a more sustainable competitive edge.



COMPANY FACTS



Most **experienced** Ozone specialists in Africa



We offer the **latest, proven** technology



Solid **technological and engineering support** for large-scale projects



Experienced and driven team



Professionally trained technicians



Provision of disinfection and oxidation **solutions**; not merely a product



Reliable customer servicing teams



Financial options ensure more than just an operational value proposition, but also a **financial value add**



Expertise and knowledge to **overcome environmental risks.**

BIOZONE SERVICE DELIVERY PROMISE

Harness Natures Technology with superior performance at viable costs, while reducing environmental impact

- Each project and client requirement is evaluated, designed and implemented based on individual needs, merits, capacities and capabilities
- We enable the supply of more than just industrial or commercial technology, but a complete, financially-viable business solution
- We ensure the compliance to national and international standards and regulations without sacrificing quality



APPLICATIONS



REMOVE UNWANTED SMELLS

Hotel rooms, smoking, garbage and refuse areas, lift wells, mortuaries, fat rendering plants/sites, public transit.



MAINTAIN GERM AND VIRUS FREE INDOOR AIR

Washrooms, toilets, call centres, offices, factory work spaces.



OXIDISE IRON AND/OR MANGANESE IN WATER

Borehole, river or dam water.



FUNGUS, MOULD, BACTERIA ETHYLENE CONTROL

Cold rooms, transportation and storage.



DECONTAMINATE WITH OZONE GAS

Schools, offices, factory spaces, containers, mortuaries, buses, taxis, trains and trucks.



TREAT AND RECYCLE WASTE AND PROCESS WATER FOR REUSE

Factory, sewage treatment plants, waste water.



WASH / RINSE / SPRAY WITH CHEMICAL FREE GERMICIDAL WATER

Fruit, vegetables, meat, preparation surfaces, CIP, bottles and packaging.



USE OZONE TO ATTAIN CARBON CREDITS WITH NON THERMAL TECHNOLOGIES

Waste treatment and oxidising noxious gases such as Nitrous and Sulphur oxides.



DISINFECT WATER WITHOUT CHLORINE

Wine and water bottle filling plants, factory water, pharmaceutical, koi ponds, aquariums.



REPLACE CHEMICALS & STEAM WITH OZONE

Industrial laundries, autoclaves and medical waste



BIOREMEDIATION

Encouraging and growing natural bacteria to solve soil, water and waste pollution.

SOME OF OUR HAPPY CUSTOMERS



unlimited fun



CONTACT US



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